

CLAIMS

What is claimed is:

- 5 1. A computer optical disc drive comprising: /
a main body having a disc module and a circuit board for controlling
operations of the disc module; and
a plug positioned outside of the main body and having a first interface
connector connected to the circuit board.

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2. The computer optical disc drive of claim 1, further comprising a power jacket for
having external power input to the circuit board.

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3. The computer optical disc drive of claim 2, wherein the power jacket further
comprises an external power controller therein so as to connect the external
power to the circuit board.

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4. The computer optical disc drive of claim 1, wherein the plug is compatible with
the specification of personal computer memory card international association
(PCMCIA).

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5. The computer optical disc drive of claim 1, further comprising an interface
conversion circuit electrically connecting the first interface connector and the
circuit board for interfacing the first interface connector and the circuit board.

6. The computer optical disc drive of claim 5, wherein the first interface connector

is compatible with and selected from PCMCIA, Mini-PCI, IEEE 1394, and USB specifications.

7. The computer optical disc drive of claim 5, further comprising a second interface
5 connector connected to the interface conversion circuit and the circuit board through a bank wire.

8. The computer optical disc drive of claim 7, wherein the second interface
connector is compatible with and selected from IDE, E-IDE, ATA/ATAPI, and
10 SCSI specifications.

9. The computer optical disc drive of claim 1, further comprising an ejection switch
for ejecting a card inserted into the plug.

15 10. A video/audio broadcasting system, comprising:

a computer optical disc drive having a main body, wherein the main body
includes a disc module and a circuit board for controlling operations of the
disc module, and a plug positioned outside of the main body and having a
first interface connector electrically connected to the circuit board;

20 a network connection card inserted into the plug and connected to the first
interface connector for retrieving audio and video data from the main body;

a data receiver for receiving the audio and video data retrieved by the
network connection card; and

25 a television connected to the receiver for displaying the audio and video
data received by the receiver.

11. The video/audio broadcasting system of claim 10, wherein the network connection card is either a wired or wireless type.

12. The video/audio broadcasting system of claim 10, further comprising an
5 audio/video data disc placed within the main body of the computer optical disc drive.

13. A digital recording system, comprising:

10 a computer optical disc drive having a main body, wherein the main body includes a disc module and a circuit board for controlling operations of the disc module, and a plug positioned outside of the main body and having a first interface connector electrically connected to the circuit board;
a video/audio broadcasting device; and
a video/audio multi-media card inserted into the plug and connected to the
15 first interface connector for retrieving audio and video data from the video/audio broadcasting device and outputting the audio/video data to the computer optical disc for data recording.

14. The digital recording system of claim 13, wherein the video/audio broadcasting
20 device is a television, digital video/audio computer optical disc player, cassette -type recorder/displayer, camera, or set-top box.

15. The digital recording system of claim 13, wherein the video/audio multi-media card is compatible with a video specifications including H.263, H.263+, H.264,
25 MPEG, JPEG, JPEG-2000, Motion-JPEG, and Motion-JPEG2000.

16. The digital recording system of claim 13, wherein the video/audio multi-media card is compatible with audio specifications including MPEG Layer 1/2/3, AC-3, AAC, and DTS.
- 5 17. The digital recording system of claim 13, further comprising a wire cable connected between the video/audio broadcasting device and video/audio multi-media card.
18. The digital recording system of claim 17, wherein the wire cable includes ends of
10 AV-type, S-type, RGB-type, YPbPr-type, YCbCr-type, or microphone-type, SPDIF-type.
19. The digital recording system of claim 15, further comprising a recordable optical disc placed within the main body of the computer optical disc drive.
- 15 20. A video/audio broadcasting method, comprising:
providing a computer optical disc drive with a plug;
playing a video/audio optical disc within the computer optical disc and
outputting video/audio data of the video/audio optical disc through a
20 network connection card inserted into the plug;
receiving the video/audio data of the video/audio optical disc with a receiver;
and
displaying the received video/audio data on a television.
- 25 21. The video/audio broadcasting method of claim 20, wherein the network connection card is for transmitting the video/audio data to the receiver in a wired

or wireless manner.

22. The video/audio broadcasting method of claim 20, wherein the receiver is for receiving the wired or wireless video/audio data and then decoding the received compressed video/audio data into standard or hi-resolution television signals.

23. A digital recording method, comprising: /

providing a computer optical disc drive with a plug;

receiving output signals of a video/audio broadcasting device through a video/audio multi-media card inserted into the plug; and

recording the output signals from the video/audio multi-media card into a recordable disc by the computer optical disc drive.

24. The digital recording method of claim 23, wherein the video/audio multi-media card further includes compression and decompression units for video and audio signals.